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1. Fast recovery in distributed shared virtual memory systems

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28 May-1 June 1990 Page(s):38 - 45

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Real-time communication in FieldBus multiaccess networks

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15-17 May 1995 Page(s):86 - 95

Digital Object Identifier 10.1109/RTTAS.1995.516205

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Network traffic characterization using token bucket model

Puqi Perry Tang; Tai, T.-Y.C.;

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Volume 1, 21-25 March 1999 Page(s):51 - 62 vol.1 Digital Object Identifier 10.1109/INFCOM.1999.749252

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23-27 April 1989 Page(s):9 - 18 vol.1

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Park D.S.: Un C.K.:

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Global Telecommunications Conference, 2001, GLOBECOM '01, IEEE

Volume 3, 25-29 Nov. 2001 Page(s):1968 - 1973 vol.3

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Dobosiewicz, W.; Gburzynski, P.; <u>Local Computer Networks, 1992. Proceedings... 17th Conference on</u> 13-16 Sept. 1992 Page(s):660 - 668 Digital Object Identifier 10.1109/LCN.1992.228132

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Moraes, R.; Vasques, F.; Portugal, P.; Fonseca, J.A.;

Local Computer Networks, Proceedings 2006 31st IEEE Conference on

Nov. 2006 Page(s):389 - 396

Digital Object Identifier 10.1109/LCN.2006.322125

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20. Real-time communication in unconstrained shared Ethernet networks: the virtual token-passing approach

Carreiro, F.B.; Moraes, R.; Fonseca, J.A.; Vasques, F.;

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Volume 1, 19-22 Sept. 2005 Page(s):8 pp.

Digital Object Identifier 10.1109/ETFA.2005.1612556

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21. PrecePt: a privacy-enhancing license management protocol for digital rights management

Bok-Nyong Park; Jae-Won Kim; Wonjun Lee;

Advanced Information Networking and Applications, 2004, AINA 2004, 18th International Conference on

Volume 1, 2004 Page(s):574 - 579 Vol.1

Digital Object Identifier 10.1109/AINA.2004.1283971

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Lee, D.; Puri, A.; Varaiya, P.; Sengupta, R.; Attias, R.; Tripakis, S.; Aerospace Conference Proceedings, 2002, IEEE Volume 3, 2002 Page(s):3-1219 - 3-1228 vol.3 Digital Object Identifier 10.1109/AERO.2002.1035254

Abstract | Full Text: PDF(674 KB) IEEE CNF Rights_and_Permissions

23. DCP: a fully distributed MAC protocol exploiting the capabilities of polling systems

Conti, M.; Gregori, E.; Lenzini, L.;
Local_Computer_Networks_1990_Proceedings__15th_Conference_on
30 Sept.-3 Oct. 1990 Page(s):320 - 326
Digital Object Identifier 10.1109/LCN.1990.128675

Abstract | Full Text: PDF(576 KB) IEEE CNF

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Conti, M.; Gregori, E.; Lenzini, L.;

<u>Selected Areas in Communications, IEEE JournaLon</u>

Volume 9, <u>Issue 2</u>, Feb. 1991 Page(s):241 - 247

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Lindquist, T.E.; Jenkins, J.R.;

<u>Software, IEEE</u>

Volume 5, <u>Issue 1</u>, Jan. 1988 Page(s):72 - 79

Digital Object Identifier 10.1109/52.1996

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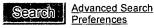
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token right and write and read



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rest Token-based Read/Write-Locks for Distributed Mutual Exclusion

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request for a locally unused token can be served right away. [11] has been extended to distinguish read and write locks [15] and is referred ...

moss.csc.ncsu.edu/~mueller/ftp/pub/mueller/papers/europar00.ps.gz - Similar pages

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A write-once-read-once batteryless token stores access data using fuses similar to those found in programmable ... 2004-6 PatentStorm LLC. All rights reserved. www.patentstorm.us/patents/5032708.html - 14k - Cached - Similar pages

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A coherent distributed file cache with directory write-behind Timothy Mann, Andrew Birrell, Andy Hisgen, Charles Jerian, Garret Swart

May 1994 ACM Transactions on Computer Systems (TOCS), Volume 12 Issue 2

Publisher: ACM Press

Full text available: pdf(3.21 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Extensive caching is a key feature of the Echo distributed file system. Echo client machines maintain coherent caches of file and directory data and properties, with write-behind (delayed write-back) of all cached information. Echo specifies ordering constraints on this write-behind, enabling applications to store and maintain consistent data structures in the file system even when crashes or network faults prevent some writes from being completed. In this paper we describe ...

Keywords: coherence, file caching, write-behind

2 Distributed systems: Dynamo: amazon's highly available key-value store



Giuseppe DeCandia, Deniz Hastorun, Madan Jampani, Gunavardhan Kakulapati, Avinash Lakshman, Alex Pilchin, Swaminathan Sivasubramanian, Peter Vosshall, Werner Vogels October 2007 Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles SOSP '07

Publisher: ACM Press

Full text available: 🔁 pdf(894.07 KB) Additional Information: full citation, abstract, references, index terms

Reliability at massive scale is one of the biggest challenges we face at Amazon.com, one of the largest e-commerce operations in the world; even the slightest outage has significant financial consequences and impacts customer trust. The Amazon.com platform, which provides services for many web sites worldwide, is implemented on top of an infrastructure of tens of thousands of servers and network components located in many datacenters around the world. At this scale, small and large components ...

Keywords: performance, reliability, scalability

The TRIPOS filing machine, a front end to a file server

M. F. Richardson, R. M. Needham

October 1983 ACM SIGOPS Operating Systems Review , Proceedings of the ninth ACM symposium on Operating systems principles SOSP '83, Volume 17 Issue 5 Publisher: ACM Press

Full text available: pdf(771.11 KB)

Additional Information: full citation, abstract, references, citings, index

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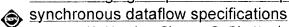
token right and write and read



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7 Buffer merging—a powerful technique for reducing memory requirements of



Praveen K. Murthy, Shuvra S. Bhattacharyya

April 2004 ACM Transactions on Design Automation of Electronic Systems (TODAES),

Volume 9 Issue 2

Publisher: ACM Press

Full text available: pdf(419.93 KB) Additional Information: full citation, abstract, references, index terms

We develop a new technique called buffer merging for reducing memory requirements of synchronous dataflow (SDF) specifications. SDF has proven to be an attractive model for specifying DSP systems, and is used in many commercial tools like System Canvas, SPW, and Cocentric. Good synthesis from an SDF specification depends crucially on scheduling, and memory is an important metric for generating efficient schedules. Previous techniques on memory minimization have either not considered buffer shari ...

Keywords: DSP and embedded systems, Synchronous dataflow, array lifetime, block diagram compiler, buffer overlaying, dataflow, design methodology, graph coloring, lifetime analysis, memory optimization, path covering

8 Monsoon: an explicit token-store architecture

Gregory M. Papadopoulos, David E. Culler

May 1990 ACM SIGARCH Computer Architecture News, Proceedings of the 17th annual international symposium on Computer Architecture ISCA '90, Volume 18 Issue 3a

Publisher: ACM Press

Full text available: pdf(1.87 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

Dataflow architectures tolerate long unpredictable communication delays and support generation and coordination of parallel activities directly in hardware, rather than assuming that program mapping will cause these issues to disappear. However, the proposed mechanisms are complex and introduce new mapping complications. This paper presents a greatly simplified approach to dataflow execution, called the explicit token store (ETS) architecture, and its current realization in ...

9 Monsoon: an explicit token-store architecture

Gregory M. Papadopoulos, David E. Culler

August 1998 25 years of the international symposia on Computer architecture (selected papers) ISCA '98

Publisher: ACM Press

Full text available: pdf(1.16 MB) Additional Information: full citation, references, index terms

10 Support for the file system security requirements of computational E-mail systems

Trent Jaeger, Atul Prakash

November 1994 Proceedings of the 2nd ACM Conference on Computer and communications security CCS '94

Publisher: ACM Press

Full text available: pdf(865.61 KB)

Additional Information: full citation, abstract, references, citings, index terms

Computational e-mail systems, which allow mail messages to contain command scripts that automatically execute upon receipt, can be used as a basis for building a variety of collaborative applications. However, their use also presents a serious security problem because a command script from a sender may access/modify receiver's private files or execute applications on receiver's behalf. Existing solutions to the problem either severely restrict I/O capability of scripts, limiting the range o ...

Keywords: active email, collaboration technology, computational email, computersupported cooperative work, file systems, groupware, security





This paper discusses an experiment which sets out to improve the performance of a number of single user computers which rely on a general purpose file server for their filing systems. The background is described in detail in reference [1], but for completeness it is necessary to say something about it here. The Cambridge Distributed Computing System consists, at the time of writing, of between 50 and 60 machines of various types, connected by a digital communications ring. On the ...

4 Transformations of CCP programs



May 2001 ACM Transactions on Programming Languages and Systems (TOPLAS),

Volume 23 Issue 3

Publisher: ACM Press

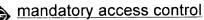
Full text available: pdf(848.38 KB)

Additional Information: full citation, abstract, references, citings, index terms

We introduce a transformation system for concurrent constraint programming (CCP). We define suitable applicability conditions for the transformations that guarantee the input/output CCP semantics is also preserved when distinguishing deadlocked computations from successful ones and when considering intermediate results of (possibly) nonterminating computations. The system allows us to optimize CCP programs while preserving their intended meaning: In addition to the usual benefits for sequential d ...

Keywords: Concurrent constraint programming, deadlock-freeness, optimization

5 Access control: SecureBus: towards application-transparent trusted computing with



Xinwen Zhang, Michael J. Covington, Songqing Chen, Ravi Sandhu

March 2007 Proceedings of the 2nd ACM symposium on Information, computer and communications security ASIACCS '07

Publisher: ACM Press

Full text available: pdf(154.95 KB) Additional Information: full citation, abstract, references, index terms

The increasing number of software-based attacks has attracted substantial efforts to prevent applications from malicious interference. For example, Trusted Computing (TC) technologies have been recently proposed to provide strong isolation on application platforms. On the other hand, today pervasively available computing cycles and data resources have enabled various distributed applications that require collaboration among different application processes. These two conflicting trends grow in ...

Keywords: SecureBus, mandatory access control, secure platform, trusted computing

6 Improving the granularity of access control in Windows NT

Michael M. Swift, Peter Brundrett, Cliff Van Dyke, Praerit Garg, Anne Hopkins, Shannon Chan, Mario Goertzel, Gregory Jensenworth

May 2001 Proceedings of the sixth ACM symposium on Access control models and technologies SACMAT '01

Publisher: ACM Press

Full text available: pdf(259.87 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents the access control mechanisms in Windows 2000 that enable fine-grained protection and centralized management. These mechanisms were added during the transition from Windows NT 4.0 to support the Active Directory, a new feature in Windows 2000. We first extended entries in access control lists to allow rights to apply to just a portion of an object. The second extension allows centralized management of object hierarchies by specifying more precisely how access control lis ...

Keywords: Windows 2000, access control lists



11 A Buffer Merging Technique for Reducing Memory Requirements of Synchronous **Dataflow Specifications**



Praveen K. Murthy, Shuvra S. Bhattacharyya

November 1999 Proceedings of the 12th international symposium on System synthesis ISSS '99

Publisher: IEEE Computer Society

Full text available: pdf(74.69 KB)

Additional Information: full citation, abstract, citings

Synchronous Dataflow, a subset of dataflow, has proven to be a good match for specifying DSP programs. Because of the limited amount of memory in embedded DSPs, a key problem during software synthesis from SDF specifications is the minimization of the memory used by the target code. We develop a powerful formal technique called buffer merging that attempts to overlay buffers in the SDF graph systematically in order to drastically reduce data buffering requirements. We give a polynomial-time algo ...

12 Access control: CPOL: high-performance policy evaluation



Kevin Borders, Xin Zhao, Atul Prakash

November 2005 Proceedings of the 12th ACM conference on Computer and communications security CCS '05

Publisher: ACM Press

Full text available: pdf(299.13 KB)

Additional Information: full citation, abstract, references, citings, index terms

Policy enforcement is an integral part of many applications. Policies are often used to control access to sensitive information. Current policy specification languages give users fine-grained control over when and how information can be accessed, and are flexible enough to be used in a variety of applications. Evaluation of these policies, however, is not optimized for performance. Emerging applications, such as real-time enforcement of privacy policies in a sensor network or location-aware comp ...

Keywords: performance, policy evaluation, privacy policy

13 A formal protection model of security in centralized, parallel, and distributed systems Glenn S. Benson, Ian F. Akyildiz, William F. Appelbe



August 1990 ACM Transactions on Computer Systems (TOCS), Volume 8 Issue 3

Publisher: ACM Press

Full text available: pdf(2.17 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

One way to show that a system is not secure is to demonstrate that a malicious or mistake-prone user or program can break security by causing the system to reach a nonsecure state. A fundamental aspect of a security model is a proof that validates that every state reachable from a secure initial state is secure. A sequential security model assumes that every command that acts as a state transition executes sequentially, while a concurrent security model assumes that multiple commands execut ...

Keywords: access control, concurrency control, distributed system security, operating system security, protection model

14 Top down operator precedence



Vaughan R. Pratt

October 1973 Proceedings of the 1st annual ACM SIGACT-SIGPLAN symposium on Principles of programming languages POPL '73

Publisher: ACM Press.

Full text available: pdf(1.15 MB)

Additional Information: full citation, references, citings

15 Recovery in the Calypso file system



Murthy Devarakonda, Bill Kish, Ajay Mohindra

August 1996 ACM Transactions on Computer Systems (TOCS), Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(318.88 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

This article presents the deign and implementation of the recovery scheme in Calypso. Calypso is a cluster-optimized, distributed file system for UNIX clusters. As in Sprite and AFS, Calypso servers are stateful and scale well to a large number of clients. The recovery scheme in Calypso is nondisruptive, meaning that open files remain open, client modified data are saved, and in-flight operations are properly handled across server recover. The scheme uses distributed state amount the client ...

Keywords: Calypso, cluster systems, distributed state, state reconstruction

MPI-IO/GPFS, an optimized implementation of MPI-IO on top of GPFS



Jean-Pierre Prost, Richard Treumann, Richard Hedges, Bin Jia, Alice Koniges

November 2001 Proceedings of the 2001 ACM/IEEE conférence on Supercomputing (CDROM) Supercomputing '01

Publisher: ACM Press

Full text available: pdf(168.17 KB)

Additional Information: full citation, abstract, references, citings, index terms

MPI-IO/GPFS is an optimized prototype implementation of the I/O chapter of the Message Passing Interface (MPI) 2 standard. It uses the IBM General Parallel File System (GPFS) Release 3 as the underlying file system. This paper describes optimization features of the prototype that take advantage of new GPFS programming interfaces. It also details how collective data access operations have been optimized by minimizing the number of messages exchanged in sparse accesses and by increasing the overla ...

Keywords: GPFS, MPI-IO, SMP node, benchmark, data shipping, double buffering, file hints, optimization, performance, prefetching

17 A joint authorisation scheme



Marie Rose Low, James A. Malcolm

January 1997 ACM SIGOPS Operating Systems Review, Volume 31 Issue 1

Publisher: ACM Press

Full text available: 7 pdf(600.94 KB) Additional Information: full citation, abstract, index terms

There are many situations where more than one principal needs to give authorisation so that a single function can take place. Self-Authenticating Proxies provide a mechanism which may be suitably employed to support the requirements of joint authorisation.

18 Robust interfaces for mixed-timing systems with application to latency-insensitive



protocols

Tiberiu Chelcea, Steven M. Nowick

June 2001 Proceedings of the 38th conference on Design automation DAC '01 :

Publisher: ACM Press

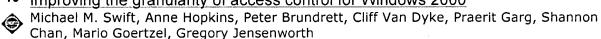
Full text available: 慢 pdf(124.41 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents several low-latency mixed-timing FIFO designs that interface systems on a chip working at different speeds. The connected systems can be either synchronous or asynchronous. The design are then adapted to work between systems with very long interconnection delays, by migrating a single-clock solution by Carloni et al. (for "latencyinsensitive" protocols) to mixed-timing domains. The new designs can be made arbitrarily

robust with regard to metastability and i ...

19 Improving the granularity of access control for Windows 2000



November 2002 ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(447.78 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

This article presents the mechanisms in Windows 2000 that enable fine-grained and centrally managed access control for both operating system components and applications. These features were added during the transition from Windows NT 4.0 to support the Active Directory, a new feature in Windows 2000, and to protect computers connected to the Internet. While the access control mechanisms in Windows NT are suitable for file systems and applications with simple requirements, they fall short of the ...

Keywords: Access control lists, Microsoft Windows 2000, Windows NT, active directory

20 NETRA:: seeing through access control

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We present netra, a tool for systematically analyzing and detecting explicit informationflow vulnerabilities in access-control configurations. Our tool takes a snapshot of the access-control metadata, and performs static analysis on this snapshot. We devise an augmented relational calculus that naturally models both access control mechanisms and information-flow policies uniformly. This calculus is interpreted as a logic program, with a fixpoint semantics similar to Datalog, and produc ...

Keywords: privilege escalation, static analysis, vulnerability reports

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